

Recombinant Human ARNTL Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ARNTL-4475H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ARNTL MS Standard C13 and N15-labeled recombinant protein (NP_001025443) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a basic helix-loop-helix protein that forms a heterodimer with CLOCK. This heterodimer binds E-box enhancer elements upstream of Period (PER1, PER2, PER3) and Cryptochrome (CRY1, CRY2) genes and activates transcription of these genes. PER and CRY proteins heterodimerize and repress their own transcription by interacting in a feedback loop with CLOCK/ARNTL complexes. Defects in this gene have been linked to infertility, problems with gluconeogenesis and lipogenesis, and altered sleep patterns. Several transcript variants encoding different isoforms have been found for this gene.
Molecular Mass	68.7 kDa
AA Sequence	MADQRMDISSTISDFMSPGPTDLLSSSLGTSGVDCNRKRKGSSTDYQESMDTDKD DPHGRLEYTEHQGRIKNAREAHSQIEKRRRDKMNSFIDELASLVPTCNAMSRKLDKL TVLRMAVQHMKTLRGATNPYTEANYKPTFLSDELKHLILRAADGFLFVVGCDRGKI LFVSESVFKILNYSQNDLIGQSLFDYLHPKDIKVKVKEQLSSSDTAPRERLIDAKTGLPV KTDITPGPSRLCSGARRSFFCRMKCNRPVKVEDKDFPSTCSKKKDRKSFCTIHST

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GYLKSWPPTKMGLDEDNEPDNEGCNLSCLVAIGRLHSHVVPQPVNGEIRVKSMEYV
 SRHAIDGKFVFDQRATAILAYLPQELLGTSCYEYFHQDDIGHLAECHRQVLQTREKI
 TTNCYKFKIKDGSFITLRSRWFSFMNPWTKEVEYIVSTNTVVLANVLEGGDPTFPQLT
 ASPHSMDSMLPSGEGGPKRTHPTVPGIPGGTRAGAGKIGRMIAEEIMEIHRIRGSSP
 SSCGSSPLNITSTPPPDASSPGGKKILNGGTPDIPSSGLLSGQAQENPGYPYSDSSSI
 LGENPHIGIDMIDNDQGSSSPSNDEAAMAVIMSLLEADAGLGGPVDFSDLPWPLTRT
 RPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ARNTL aryl hydrocarbon receptor nuclear translocator-like [Homo sapiens (human)]

Official Symbol ARNTL

Synonyms ARNTL; aryl hydrocarbon receptor nuclear translocator-like; aryl hydrocarbon receptor nuclear translocator-like protein 1; bHLHe5; BMAL1; JAP3; MOP3; PASD3; bHLH-PAS protein JAP3; member of PAS protein 3; member of PAS superfamily 3; brain and muscle ARNT-like 1; PAS domain-containing protein 3; ARNT-like protein 1, brain and muscle; basic-helix-loop-helix-PAS orphan MOP3; basic-helix-loop-helix-PAS protein MOP3; class E basic helix-loop-helix protein 5; TIC; BMAL1c;

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MGC47515;

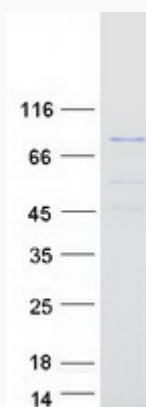
Gene ID 406

mRNA Refseq NM_001030272

Protein Refseq NP_001025443

MIM 602550

UniProt ID O00327

SDS-PAGE

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